

WHAT IS CLAIMED IS:

1. A cored wire injection process for introducing fluxes and alloying additives in liquid steel bath, comprising the steps of:
 - adjusting the bath temperature and chemistry of the liquid steel in a secondary treatment unit according to requirements; and
 - releasing said additives from said cored wire, while controlling the zone of release of said additives thereby controlling yield of the additives by changing the dimensions of said cored wire and speed of injection to suit the grade of steel processed and the treatment temperature.
2. The process as claimed in claim 1, wherein the zone of release of said flux and other additives from said cored wire is preferably very close to the bottom of the ladle of said secondary treatment unit.
3. The process as claimed in any of the preceding claims, wherein the dimensions of said cored wire for steel grades of high liquidus temperature and / or treatment temperature in a 140 ton ladle with 3 meter bath depth, are preferably more than 13 mm in diameter and more than 0.4 mm in thickness to suit the treatment temperature and the grade of steel.
4. The process as claimed in claim 3, wherein the dimensions of said cored wire are 16 mm in diameter and 0.6 mm in thickness.
5. The process as claimed in claim 3, wherein the dimensions of said cored wire are 18 mm in diameter and 0.8mm in thickness.

6. The process as claimed in the preceding claim, wherein said speed of injection is preferably about 110 meters / min.
7. The process as claimed in claim 1, wherein said additive is a calcium bearing material.
8. The process as claimed in claim 7, wherein said calcium bearing material comprises calcium-silicide.
9. The process as claimed in claim 7, wherein said calcium bearing material comprises calcium-iron.